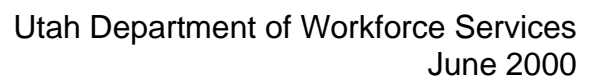


A decorative graphic consisting of a grid of stylized, bold, black and white patterns. The patterns are arranged in a 3x3 grid, with each cell containing a unique, abstract design. The designs are reminiscent of traditional Japanese or Chinese motifs, such as stylized flowers, leaves, or geometric shapes. The overall effect is a high-contrast, visually striking composition.



training levels

Training levels represent how *most* workers became proficient in their occupations.

Bachelor's Degree or Higher—This classification includes four training groups: professional degrees (like law or medicine), doctoral degrees, master's degrees, bachelor's degrees, and work experience in an occupation requiring a bachelor's or higher degree (like managers).

Associate's Degree or Applied Technology Training—Associate's Degrees usually require at least two years of full-time academic work after high school. Most occupations in this category are health-related. Applied technology occupations generally require completion of applied technology training programs or courses that do not result in a degree. Program lengths vary and often lead to certification or a diploma. Some occupations require licensure.

Work Experience in a Related Occupation—These occupations require skills and experience gained in another occupation. Or, skills may be developed from hobbies or military service.

Long-Term On-the-Job Training—These are occupations which generally require more than 12 months of on-the-job training or combined work experience *and* formal classroom instruction before workers develop skills needed for average job performance.

Moderate-Term On-the-Job Training—

Workers in this category usually achieve average job performance after one to 12 months of combined on-the-job experience and informal training (which can include watching experienced workers). Trainees are given progressively more difficult assignments as they demonstrate their mastery of lower-level skills.

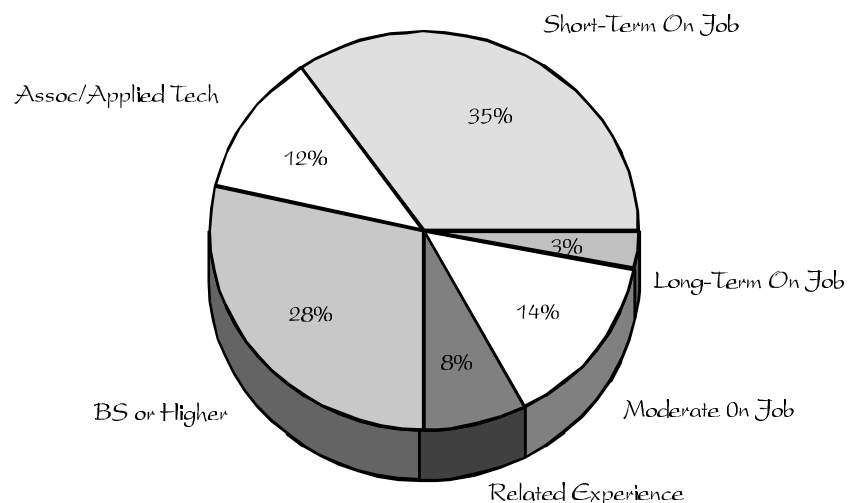
Short-Term On-the-Job Training—

In this group, workers typically achieve average job performance in just a few days or weeks by working with, observing, and asking questions of experienced employees.



training does count!

Utah New Jobs by Training Level—2000-2005



a word about occupational wages. . .

On average, workers in nonurban areas can expect to earn lower wages than statewide figures.

The wage rates in this publication show the average wage rate for experienced workers.

These are average wages. . . they represent workers with 30 years of experience as well as those with three years of experience.

Workers entering the occupation for the first time can expect to earn noticeably lower wages than those listed here.

Wages were collected by the Utah Department of Workforce Services between October 1998 and July 1999.

For more information on occupational wages visit our web site:

wi.dws.state.ut.us



question: *Should I pay the most attention to occupations with the most new openings or those that are fastest growing?*

answer: Job growth can be measured by percent change and numerical change. The fastest-growing occupations do not necessarily provide the largest number of jobs. A larger occupation with slower growth may produce more openings than a smaller occupation with faster growth.

For example, the rate of growth for paralegals is twice that of nurses. But, there are 10 times as many nursing openings as paralegal openings. Generally, it's best to **concentrate on occupations with the most openings**. However, often when occupations are growing rapidly there may be short-term shortages of workers. BUT, further research would be necessary! Don't just think that a rapidly growing occupation is a sure road to job-seeking success.

Fastest-Growing
or
Most
Openings?

Don't be fooled!
Fast-growing occupations might create only a few jobs.

Utah

Employment Projections 2000 - 2005

Bachelor's Degree or Higher

	Annual Job Openings 2000-2005	Estimated Average Hourly Wage		Annual Job Openings 2000-2005	Estimated Average Hourly Wage
Accountants & Auditors	430	\$18.40	Managers, Farm	50	NA
Aircraft Pilots & Flight Engineers	60	\$38.80 *	Managers, Financial	220	\$25.10
Architects, Excl Landscape	80	\$22.80	Managers, General & Top Execs	780	\$28.00
Artists & Commercial Artists	370	\$16.00	Managers, Human Resources	80	\$21.10
Biological Scientists	50	\$23.60	Managers, Medical/Health Services	160	\$25.70
Chiropractors	70	\$26.60	Managers, Property & Real Estate	180	\$15.80
Computer Programmers	230	\$22.90	Medical/Clinical Lab Technologists	60	\$17.80
Computer Systems Analysts	380	\$23.20	Pharmacists	80	\$30.40
Counselors	110	\$14.60	Physical Therapists	60	\$25.40
Dentists	130	\$43.60 *	Physicians	350	\$50.00 *
Designers, Excl Interior	310	\$11.50	Psychologists	130	\$21.80
Education Administrators	170	\$26.40	Public Relations Specialists	90	\$15.90
Engineers, Civil	110	\$24.20	Purchasing Agents, Excl Whl/Ret/Farm	80	\$18.70
Engineers, Computer	290	\$27.50	Real Estate Appraisers	50	\$23.90
Engineers, Electrical & Electronic	220	\$28.40	Recreation Workers	110	\$8.10
Engineers, Mechanical	60	\$25.70	Residential Counselors	110	\$10.00
Human Resource/Training/Labor Rel Specs	170	\$17.90	Sales Agents, Financial Sales	100	\$20.50
Instructional Coordinators	60	\$16.80	Social Workers, Excl Medical & Psychiatric	240	\$14.20
Insurance Sales Agents	200	\$18.50	Social Workers, Medical Psychiatric	150	\$15.50
Interior Designers	90	\$14.60	Teachers, Art, Drama, Music, Postsecondary	50	\$21.40
Lawyers	370	\$34.70	Teachers, Elementary School	350	\$15.90
Loan Counselors & Officers	120	\$17.60	Teachers, English & Literature, Postsecondary	60	\$23.00
Management Analysts	190	\$23.80	Teachers, Kindergarten	50	\$13.00
Managers, Administrative Services	150	\$21.40	Teachers, Preschool	120	\$7.40
Managers, Advertising, Marketing, Sales	170	\$27.80	Teachers, Secondary School	650	\$16.10
Managers, Communication/Transp/Utilities	60	\$22.70	Teachers, Special Education	100	\$16.30
Managers, Engineering, Nat Sci, Info Sys	180	\$33.10	Writers & Editors	220	\$16.30

Associate Degree/Applied Tech

Automotive Mechanics/Service Technicians	610	\$13.40	Medical Records & Health Info Techns	60	\$10.00
Broadcast & Sound Technicians	60	\$10.80	Medical/Clinical Lab Technicians	80	\$10.30
Computer Support Specialists	580	\$15.80	Nurses, Registered	900	\$20.20
Cosmetologists & Hairdressrs	470	\$7.80	Paralegals & Legal Assistants	60	\$15.70
Court Reporters, Medical Trans, & Stenos	80	\$11.40	Photographers	110	\$10.90
Dental Hygienists	60	\$26.10	Physical Therapy Assists/Aides	100	\$8.50
Drafters	150	\$13.90	Radiologic Techs/Technologists	80	\$15.90
Electrical & Electronic Techs/Technologists	110	\$17.40	Sales Agents, Real Estate	260	\$19.90
Electronics Repairers, Comm or Ind Equip	60	\$17.10	Secretaries, Legal	60	\$13.20
Emergency Medical Techns/Paramedics	180	\$9.10	Secretaries, Medical	70	\$10.80
Licensed Practical/Voc Nurses	200	\$12.10	Travel Agents	90	\$10.70

Experience in a Related Occupation

Brokers, Real Estate	120	\$23.70	First Line Supervisors: Mech & Repairers	160	\$19.50
Custom Tailors & Sewers	80	\$8.30	Inspectors & Compliance Officers	60	\$17.40
Electrical/Electronic Assemblers	50	\$9.50	Inspectors & Testers, & Graders, Production	90	\$11.90
First Line Supervisors, Construction & Mining	250	\$19.70	Instructors, Adult (Non-VocEd)	80	\$11.20
First Line Supervisors, Marketing/Sales	1,180	\$15.60	Managers, Food Service & Lodging	480	\$13.30
First Line Supervisors, Office/Admin Support	560	\$15.00	New Accounts Clerks, Banking	70	\$9.80
First Line Supervisors, Production	250	\$16.30	Private Detectives/Investigators	90	\$10.00
First Line Supervisors, Transportation	50	\$17.20	Teachers & Instructors, VocED/Training	160	\$17.00

Long-Term On-the-Job Training

	Annual Job Openings 2000-2005	Estimated Average Hourly Wage		Annual Job Openings 2000-2005	Estimated Average Hourly Wage
Actors, Directors, Producers	150	\$9.30	Insurance Adjusters, Examiners, Investig	60	\$19.60
Automotive Body & Rel Repairers	160	\$13.30	Machinists	100	\$14.30
Cabinetmakers/Bench Carpenters	50	\$10.60	Maintenance Repairers, Gen Util	380	\$11.50
Carpenters	310	\$13.70	Mobile Heavy Equipment Mechanics	70	\$16.60
Cooks, Institution/Cafeteria	120	\$8.60	Musicians, Instrumental	100	\$15.80
Cooks, Restaurant	340	\$8.10	Office Mach/Cash Register Servicers	70	\$10.60
Correctional Officers	130	\$13.50	Police Patrol Officers	170	\$14.80
Diesel Engine Mechanics	150	\$14.50	Sheriffs & Deputy Sheriffs	60	\$14.60
Fire Fighters	70	\$9.50	Upholsterers	70	\$11.70
Flight Attendants	80	\$20.50 *	Water & Waste Treatment Plant Operators	50	\$13.00
Industrial Machinery Mechanics	80	\$14.60	Welders & Cutters	120	\$13.10

Moderate-Term On-the-Job Training

Accounting & Bookkeeping Clerks	410	\$10.40	Parts Salespersons	100	\$12.60
Bakers, Bread & Pastry	100	\$8.80	Pharmacy Technicians	60	\$10.60
Bus Drivers, Transit/Intercity	70	\$11.80	Photographic Process Workers, Precision	80	\$8.60
Carpet Installers	60	\$12.60	Printing Press Machine Operators & Tenders	60	\$12.10
Data Entry Keyers, Ex Composing	70	\$8.60	Roofers	50	\$12.50
Dental Assistants	190	\$9.20	Sales Agents, Advertising	110	\$15.70
Instructors/Coaches, Sports/Phy	200	\$11.00	Sales Agents, Business Services	320	\$17.90
Insurance Policy Processing Clerks	60	\$10.40	Sales Reps, Non-Technical	540	\$19.00
Laundry/Drycleaning Machine Operators	100	\$8.20	Sales Reps, Technical	200	\$24.70
Medical Assistants	220	\$9.40	Secretaries, Excl Legal or Medical	550	\$10.60
Packaging, Filling Machine Operators	200	\$8.90	Social/Human Service Assistants	260	\$9.30
Painters & Paperhangers	130	\$11.90	Telemarketers, Sales Related Workers	2,730	\$7.90

Short-Term On-the-Job Training

Adjustment Clerks	330	\$9.80	Industrial Truck & Tractor Operators	70	\$12.00
Amusement & Recreation Attendants	200	\$6.20	Interviewing Clerks, Excl Personnel	200	\$8.40
Animal Caretakers, Excl Farm	120	\$8.80	Janitors & Cleaners	1,070	\$7.90
Bank Tellers	250	\$8.10	Laborers, Landscaping & Groundskeeping	1,020	\$8.20
Bartenders	120	\$6.80	Library Assists/Bookmobile Drivers	80	\$8.30
Bill & Account Collectors	230	\$9.80	Library Technicians	60	\$9.90
Billing/Cost/Rate Clerks	90	\$10.30	Machine Feeders & Offbearers	60	\$8.50
Bus Drivers, School	120	\$11.00	Maids & Housekeeping Cleaners	480	\$6.80
Cashiers	2,610	\$7.30	Mail Clerks, Excl Mail Machine	100	\$8.20
Child Care Workers	610	\$6.70	Mechanic & Repairer Helpers	150	\$9.00
Cleaners of Vehicules/Equipment	180	\$7.40	Nursing Aides, Orderlies, Attendants	380	\$8.00
Cooks, Fast Food	220	\$6.50	Office Clerks, General	1,190	\$9.50
Cooks, Short Order	160	\$6.60	Order Clerks	130	\$9.80
Counter & Rental Clerks	480	\$7.90	Order Fillers, Wholesale/Retail	130	\$10.40
Counter Attendants/Lunchrm/Cafeteria	720	\$6.60	Postal Mail Carriers	90	\$16.00
Couriers & Messengers	60	\$7.80	Production, Planning, & Expediting Clerks	60	\$14.30
Customer Service Reps, Utilities	60	\$12.50	Reception & Information Clerks	570	\$8.30
Dining Room/Cafe Attendants Bar Helpers	140	\$6.70	Reservation & Transportation Ticket Agents	250	\$12.30
Driver/Sales Workers	90	\$8.50	Sales Clerks, Retail	2,340	\$8.80
Farm Workers, Ex Agri Services	550	NA	Shipping & Receiving Clerks	200	\$10.80
Fast Food Workers	930	\$6.40	Stock Clerks, Sales Floor	210	\$8.30
File Clerks	140	\$8.10	Stock Clerks: Stockroom or Warehouse	230	\$9.50
Food Preparation Workers	780	\$6.90	Taxi Drivers & Chauffeurs	70	\$7.70
Food Servers	70	\$6.40	Teacher Aides, Paraprofessional	440	\$7.90
Guards	250	\$8.80	Teacher Aides/Educational Assts	130	\$8.40
Guides	110	\$8.00	Tire Repairers & Changers	80	\$7.70
Hand Packers & Packagers	570	\$7.00	Truck Drivers, Heavy	910	\$14.70
Helpers, Carpenters & Related	120	\$8.80	Truck Drivers, Light	600	\$9.60
Home Health Aides	150	\$7.70	Ushers, Lobby Attendants, Ticket Takers	60	\$6.60
Hosts/Hostesses, Restaurant, Lounge	100	\$6.80	Waiters & Waitresses	1,130	\$6.00
Hotel/Motel/Resort Desk Clerks	160	\$7.30			

Source: Utah Department of Workforce Services; Economic and Data Analysis.

* U.S. wage. Unless noted with (*), wages are for the Utah

Just because an occupation is in this publication, doesn't mean jobs will be easy to find! Here we cover only the "**demand**" for occupations. The other side of the equation is the **supply** of workers wanting to work in that occupation.

Unfortunately, there's not much worker supply data.



on the net. . .

- ✓ wi.dws.state.ut.us —Utah Labor Market Information
- ✓ www.bls.gov/ —Bureau of Labor Statistics
- ✓ www.bls.gov/ocohome.htm —Occupational Outlook Handbook
- ✓ www.ajb.org/ut/ —Utah's Job Bank
- ✓ www.dws.state.ut.us/Job_board/default.asp —Utah's Electronic Bulletin Board
- ✓ firmfind.dws.state.ut.us/pgMain.asp —Lists of Utah Companies

do your homework!



do your homework!



supply-side economics

An occupation may create hundreds of new openings every year. But, if thousands of workers are qualified for those positions, lots of workers won't find work in that field.

In other words, look at the *supply* of labor for a particular occupation—not just the *demand*. We do have some figures on the number of people completing certain

programs at public institutions. However, that excludes many, many qualified workers.

So, you'll have to do your homework! Check with people already employed in the occupation and employers who hire that occupation to determine whether there is an over- or under- supply of workers.

Utah Jobs Where "Supply" May be Larger than "Demand"

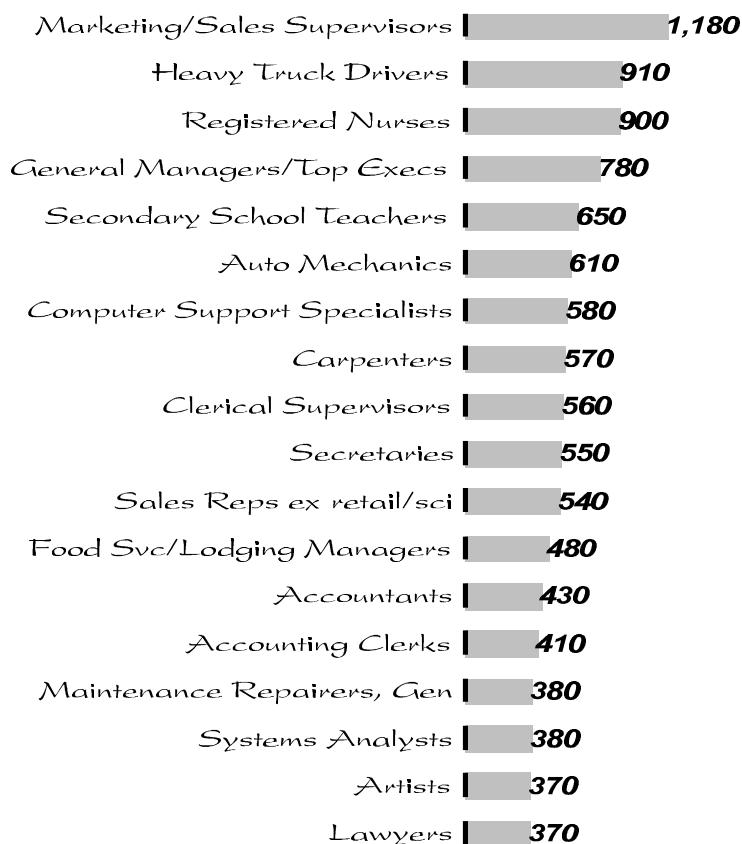
- ✓ **Accountants**
- ✓ **Cosmetologists**
- ✓ **Drafters**
- ✓ **Sports Instructors/Coaches**
- ✓ **Management Analysts**
- ✓ **Marketing/Advertising Manager**
- ✓ **Psychologists**
- ✓ **Public Relations Specialists**
- ✓ **Recreation Workers**
- ✓ **Elementary Teachers**
- ✓ **Writers/Editors**



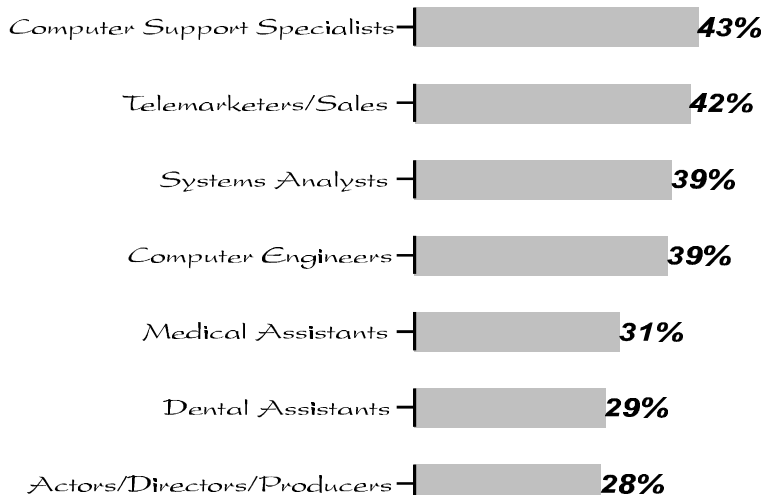
Remember,
don't be
tricked by our list
of "fastest
growing"
occupations.
Other jobs may
have many more
openings!



Utah Occupations with Most New Openings and Higher Pay



Fastest Growing Utah Occupations with at Least 100 Openings



use your head!

X A bachelor's degree is becoming increasingly important in finding a high-paying, in-demand job in Utah.

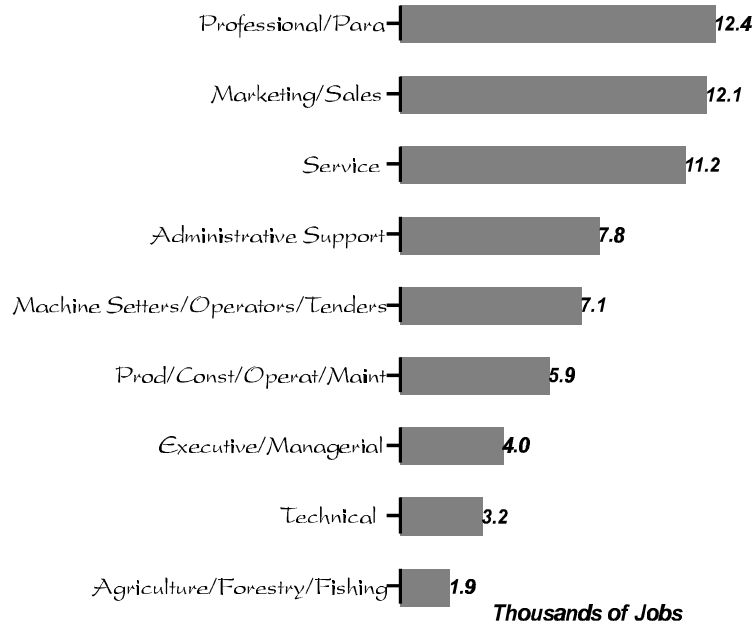
X Professional and paraprofessional jobs will produce the most new openings in Utah.

X Computer-related jobs and occupations in medical fields will show higher-than-average expansion.

X Short-term jobs show high numbers of openings because of turnover as well as growth.

X Jobs in agriculture, forestry, and fishing are projected to show the fewest job openings.

Utah 2000-2005 Annual Job Openings by Major Occupational Category



Our Mission

The mission of the Utah Department of Workforce Services is to provide accessible, and comprehensive employment-related and supportive services responsive to the needs of employers, job seekers, and the community.

All the information in this publication was produced by the Utah Department of Workforce Services.



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